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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/356,845	07/19/1999		JOHN DAVID KAEWELL JR.	1-1-50.5US	8408
24374	7590	05/21/2002			
VOLPE A	ND KOE	NIG, PC	EXAMINER		
DEPT ICC SUITE 400,	ONE PEN	IN CENTER	BOCURE, TESFALDET		
1617 JOHN F. KENNEDY BOULEVARD PHILADELPHIA, PA 19103			.D	ART UNIT PAPER NUMBER	
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				DATE MAILED: 05/21/2002	!

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary Examiner			Application No.	Applicant(s)					
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Testaldet Bocure - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherward to time may be evaluated and the communication. If the period for reply specified above is loss than their (20) stays, a reply within the datatory minimum of their, (20) stays will be considered finenty. If the period for reply specified above is loss than their (20) stays, a reply within the datatory minimum of their, (20) stays will be considered finenty. If the period for reply specified above is loss than their (20) stays, a reply within the datatory minimum of their, (20) stays will be considered finenty. If the period for reply specified above is loss than their (20) stays, a reply within the datatory minimum of their, (20) stays will be considered finenty. If the period for reply specified above is loss than their (20) stays, a reply within the datatory minimum of their, (20) stays will be considered finenty. If the period for reply specified above is loss than their (20) stays, a reply within the datatory minimum of their, (20) stays will be communication. If the period for reply specified above is loss than their (20) stays, a reply within the datatory minimum of their, (20) stays will be communication. If the period for reply specified stays and stays are reply their mailing data of this communication, even if timely filed, may reduce a my secret part of the stays of the stay				<u> </u>					
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2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 11,13-23,25-27 and 29-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are allowed. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10 ☐ The drawing(s) filed on is/are: a	THE I - Exter after - If the - If NO - Failu - Any r earne	MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11,13,14 and 32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11: It has been claimed in claim 11, lines 17-18, that the "TX information originated from a secondary station," while in lines 10-11 "the TX information" is transmitted from the primary station, which is confusing. The same is true with "the synchronization information from the primary station" with that, "the synchronization information from the base station of the "in lines 21-22.

Claim 13,14 and32: Claims 13 and 14 are inherently rejected as being dependent on the rejected base claims.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for

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patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

3. Claims 11,13-23,25-27 and 29-32 are rejected under 35 U.S. C. 102(b) as being anticipated by Schlosser et al. (US patent number 3,879,581, of a record).

Schlosser teaches a communication system having a repeater station (100) (claimed primary) for communicating with a plurality of subscriber stations (not shown, see subscriber line in figure 1) and data terminals (110), wherein the repeater terminal comprising means and steps for: receiving an information signal from one of the subscriber stations using an up-link channel and slot through a data terminal (110); detecting the received up-link signal from the terminal and the sync signal and assigning a sync. signal in a corresponding time slot for transmitting to the receiving end on the assigned time slot and frequency (2a-2f and claims 1-6) as in claims 11,13,15,16,19,22,26 and 30. The repeater unit modifies the received up-link signals to be transmitted and assigns the down-link time slot without the knowledge of the data terminals and subscriber units, and therefore it is transparent to both the subscriber and the data terminals. Further to claims 14,17 and 20, the data terminals and the subscriber station (not shown) are outside the operating range.

The time slots in figures 2a-2f having a corresponding up-link and down-link frequencies (800 channels) as in claims 23,27 and 30, and the sync. information and control field transmitted by the spacecraft 100 will be used by the data terminals to be synchronized as in claim 32...

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The repeater unit (100) modifies the received signal to be transmitted to the receiving end, therefore, reads on the claimed equalizing the received signal before retransmitting as in claims 25,29 and 31.

The wideband downlink (121) includes a synchronization and control filed, which is utilized by the spacecraft to interrogate and call the date terminals in order to set up a circuit connection, to provide time reference for uplink synchronization of the terminals (see col. 4, lines 41-59), reads on the newly claimed secondary station aligning its frame timing according to the received signal in claims 11,15 and 19.

The repeater unit is a radio transceiver reads on the claimed transmitter and receiver embedded on radio as in claims 18 and 21.

Response to Amendment

4. In response to Applicant's argument that:

The present invention has a base station transmitting synchronization information to primary/telecommunication station so that the station can synchronize to the base station. The primary/telecommunication station transmits synchronization information to a secondary station so that the secondary station can synchronize to the primary/telecommunication station. Ass a result, the secondary station is effectively synchronized to the synchronization information transmitted by the base station.---

First, Examiner would like to point out that the space craft 100 (satellite) may employ to perform similar functions to those performed by the base station in a terrestrial radiotelephone system, for example, in area where population is sparsely distributed over a large area or rugged

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topography tends to make lindline telephone or terrestrial telephone infrastructure technically or economically impossible. See for example, US patent number 5,901,185.

As to the above argument, the spacecraft 100 transmits a downlink frame, a synchronization and control field, to the data terminals. See figure 2d-2f.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to T.Bocure whose telephone number is (703) 305-4735. The examiner can normally be reached on Monday through Thursday the first week of a bi-week and Monday through Friday the second week of a bi-week from 7:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (703) 305-4378. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4743 or (703) 305-3988.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

T.Bocure

May 20, 2002